

Abstract

A compact digital zoom camera includes a module base having an image sensor therein, a gear train installed at a side of an upper surface of the module base, a lens guide base installed on the module base and having a guide cylinder portion integrally formed thereon in which at least two groups of linear guides are formed in a lengthwise direction thereof, a driving motor installed at a motor installation portion on the lens guide base to rotate the gear train, a cam barrel rotatably installed at an outer side of the lens guide base and having a cam barrel gear portion engaged with any gear of the gear train and at least two groups of cam slots formed there in, at least two lens frames having at least two groups of linear guide portions respectively inserted in the two groups of linear guides of the lens guide base and guided thereby and at least two groups of cam pins respectively inserted in insertion holes formed in the linear guide portions and fixed therein such that end portions of the two groups of cam pins are respectively inserted in at least two groups of cam slots formed in the cam barrel and restricted thereby, and at least two groups of lenses respectively fixed on the two groups of lens frames.